TECHNICAL DATA SHEET



AS1811 1 Part Non-Corrosive Neutral Cure Adhesive Sealant (Electronic Grade)

Description

This is a non-corrosive, neutral cure, 1-part, RTV (Room Temperature Vulcanising) silicone adhesive sealant. It is one in a range of Acetone cure products which are solvent free. It exhibits excellent primerless adhesion to many substrates and cures rapidly at room temperature when in contact with atmospheric moisture to form a tough rubber. This product will not corrode copper or its alloys and is suitable for use with electronic components.

Key Features

- UL94 V0 recognised in file No. E334038
- Thermally conductive
- Non corrosive
- Low volatile content

Application

TIM for electronic and thermal management applications

Use and Cure Information

This product is a ready for use 1 Part system. If supplied in cartridges it can be applied using either manual or pneumatic dispensing guns. It can also be applied from bulk containers using conventional drum dispensing equipment.

All surfaces to which the sealant is to be applied should be clean, dry and free from grease, dirt, and loose material. Priming of surfaces is not normally required. If using as an adhesive, it should be applied to one clean surface and the other clean surface brought into contact with it within the tack free time stated opposite. For optimum bond strength, the thickness of the sealant joint should be a minimum of 1 mm.

The sealant will cure upon exposure to atmospheric moisture, ideally between 20 to 30 °C and 40% to 70% Relative Humidity. Time taken for cure will depend on the thickness of the joint, humidity and temperature. Joints should be left undisturbed for at least 24 hours, but preferably longer to effect sufficient depth of cure. Full cure requires 7 days.

"For pneumatic dispensing of 310 ml cartridges, the recommended pressure is 2.25 to 3.45 bar (40 to 50 psi). Dispensing pressure above the recommended limits may lead to gas bypassing the piston, causing spluttering at the nozzle and poor bead quality"

Health & Safety Health and Safety

Safety Data Sheets available on request.

Packaging

CHT Adhesives are available in a variety of packaging including cartridges and bulk containers. Please contact our sales department for more information.

Users are advised to carry out their own tests on clean, degreased substrates to ensure satisfactory adhesion is achieved.

Stress cracking can appear on some grades of polycarbonate and poly(methyl methacrylate). Users are advised to carry out initial testing to ensure product compatibility.

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specification. You must obtain professional or specialist advice before taking any action based on the information provided in the technical data sheet.					

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CHT Germany GmbH: Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany

Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com / www.cht-silicones.com

Property Uncured Product	Test Method	Value
Appearance		Thixotropic paste
Cure Profile		23+/-2°C and 50+/-5% humidity
Cure Through to 3 mm Depth		18 hr
Cure Type		Acetone
Extrusion Rate g/min		57 g/min
Rheology		Paste
Self Bonding		Yes
Tack Free Time / Skin Formation at 23°C/73°F		3 min
Cured Product		
7 days at 23+/-2°C and 50+/-	-5% humidity	

7 days at 23+/-2°C and 50+/ Color	/-5% humidity	White
Density	BS ISO 2781	2.75 g/cm3
Hardness Shore A	ASTM D 2240- 95	61
Max Working Temp Min Working Temp		200 °C / 392 °F -50 °C / -58 °F
Thermal Conductivity Heat Flow Meter	ISO 8301 / ASTM C518	2.12 W/mK
Thermal Conductivity Lees Disc	ASTM D7340	3.02 W/mK
UL 94V-0 UL File No.		Yes E334038
Electrical Properties		
Dielectric Constant	ASTM D-150	4.92
Dissipation Factor	ASTM D-150	0.008232
Volume Resistivity (Ohms cm)	ASTM D-257	6.17E+14 ohms cm
Storage Max Storage Temperature Shelf Life		40 °C / 104 °F 12 mths